



355347

Discard Immediately

Retain	Initial
1 month	
3 months	
6 months	
Permanently	<u>MRG</u>

MEMORANDUM

WOLF LAKE--Trojan Powder Company
Waste Disposal

July 27, 1953

Mr. Klassen and I conferred with Mr. D. O. Williams, chief engineer, and T. L. O'Shea, representatives of Trojan Powder Company, Allentown, Pennsylvania, which operates the existing black powder plant at Wolf Lake. The purpose of the conference was to determine waste disposal requirements for the manufacture of penta-erythritol (known commercially as "P.E.").

Williams reported that there are no liquid wastes produced in the manufacture of black powder. This has been produced at Wolf Lake since about 1946. The manufacture of "P.E." will produce ten to fifteen thousand gallons of waste daily which will be lagooned for fifty to sixty days before discharge to Wolf Lake. According to Williams, experience at the Allentown plant has shown that this waste will be completely unobjectionable for discharge. It is possible, too, that some of the waste will be discharged to the cooling water system for make-up purposes.

The cooling water system may overflow to the lake. If it does the maximum possible B.O.D. load that could be discharged would be 200 to 250 pounds of five-day B.O.D. per day in 150 to 200 g.p.m. waste flow. The waste would be free of suspended solids, contain no toxic substances, be free of color, and have a nearly neutral pH.

From the point of waste discharge to the property boundary of Trojan Powder Company it is about two miles. It is about another mile before the waste would enter Running Lake Ditch, a small stream discharging to the Mississippi.

It seems extremely doubtful if the expected waste from the proposed manufacture of "P.E." would cause stream pollution. It was agreed that the Trojan Powder Company would submit in writing the data presented during the conference and that the discharge of the waste without additional treatment would be approved by the S.W.B. with the reservation that treatment facilities would be required if the results of actual operation were not satisfactory.

The plant superintendent is M. W. Endean of Anna, but Williams would prefer that Mr. O'Shea be informed when a plant visit is proposed. O'Shea is frequently at the Wolf Lake plant.

M. R. Golly
M. R. Golly, Sanitary Engineer
Kaskaskia-Big Muddy River Basin

MRG:ems

cc: -Southern Region